

The Weekly Petroleum Status Report (WPSR) provides timely information on the petroleum supply situation in the context of historical information, selected prices, and forecasts. The WPSR is intended to provide up-to-date information to the industry, the press, planners, policymakers, consumers, analysts, and State and local governments. It is published each Thursday by the Energy Information Administration. The data contained in this report are based on company submissions for the week ending 7 a.m. the preceding Friday

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DATA LINE

After 5 p.m. Eastern time on Wednesdays, key statistics from the next morning's issue of the Weekly Petroleum Status Report will be available on DATALINE, EIA's recorded message service. The number is 202/252-6342. After noon Eastern time on Fridays, the message will also contain key statistics from the next Monday's issue of Weekly Coal Production.

If a week contains a Monday, Tuesday or Wednesday holiday, both DATALINE and publication schedules will be delayed one day.

Remember the DATALINE number. 202/252-6342

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This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the Department of Energy. The information contained herein should not be construed as advocating or necessarily reflecting any policy position of the Department of Energy or any other organization

Highlights

Refinery Operations

Crude oil inputs to refineries averaged 12.5 million barrels per day for the four weeks ending October 7, 1983. Refinery capacity utilization averaged 75.5 percent during the period. During the four weeks ending October 7, 1983, motor gasoline production averaged 6.6 million barrels a day, and distillate fuel oil production averaged 2.7 million barrels a day.

Stocks

On October 7, 1983, stocks of crude oil (excluding the Strategic Petroleum Reserve) stood at 353.8 million barrels. Stocks of product stood as follows total motor gasoline at 226.7 million barrels; distillate fuel oil at 157.0 million barrels; and residual fuel oil at 46.9 million barrels.

Imports

Net imports of crude oil (including imports for the Strategic Petroleum Reserve) and petroleum products together averaged 5.4 million barrels a day for the four weeks ending October 7, 1983, about 17 percent above the average a year ago. Gross imports of crude oil (excluding the Strategic Petroleum Reserve) averaged 3.9 million barrels a day for the four-week period ending October 7, 1983.

Products Supplied

Total petroleum products supplied averaged 15.6 million barrels a day for the four-week period ending October 7, 1983, which is about 4 percent above the rate supplied a year ago. Motor gasoline was supplied at a rate of 6.8 million barrels a day, which is about 4 percent above the rate supplied a year ago. Distillate fuel oil was supplied at a rate of 2.6 million barrels a day, about 2 percent above the rate supplied a year ago.

World Crude Oil Price

The estimated weighted average international price of crude oil as of October 11, 1983, remains at \$28.67 a barrel.

Spot Market Product Price

For the week ending October 7, 1983, the average spot market price of 98 octane gasoline on the Rotter-dam market increased 17 cents to \$33.41 a barrel; the gasoil price decreased \$1.20 to \$32.51 a barrel, and the price of residual fuel oil decreased 23 cents to \$27.40 a barrel. On the New York market, the average spot price of 89 octane regular gasoline decreased 63 cents to \$34.29 a barrel; the price of No. 2 heating oil decreased 52 cents to \$33.50 barrel, and the residual fuel oil price decreased 75 cents to \$28.00 a barrel.

August 1983 Short-Term Energy Outlook

Total petroleum product supplied in 1983 is projected to be 15.2 million barrels per day, about equal to the 1982 level. Total product supplied is projected to average almost 16 million barrels per day in 1984, up about 5 percent from 1983. This forecast is based on the assumption that the average cost of imported crude oil to U. S. refiners will remain at the estimated early August 1983 level of \$29.00 per barrel throughout the forecast period. Gross National Product is projected to rise by 3.1 percent from 1982 to 1983 and 4.8 percent from 1983 to 1984.

History and Base Case Projections, Short-Term Energy Outlook, August 1983

Total petroleum product supplied in 1983 is projected to be 15.2 million barrels per day (about equal to the 1982 level) in the base case projections of EIA's Short Term Energy Outlook, August 1983 In 1984 total petroleum product supplied is forecast to be about 5 percent above year earlier levels at almost 16 million barrels per day. This forecast is based on the assumptions that (1) the average cost of imported crude oil to U.S. refiners will remain at the estimated early August 1983 level of \$29 per barrel throughout the forecast period and that (2) U 5 Gross National Product will rise by 3.1 percent from 1982 to 1983, then be 4.8 percent above the year-earlier level in 1984. Motor gasoline supplied is projected to use slightly, to about 6.6 million barrels per day in 1983, then remain at that level in 1984. Distillate fuel oil supplied in 1983 is projected to decline to about 2.6 million barrels per day in 1983, then rise to 2.9 million barrels per day in 1984. Residual fuel oil supplied is projected to fall by over 10 percent, to 1.5 mil lion barrels per day in 1983, then rise to 1.7 million barrels per day in 1984

History and Base Case Projections, U. S. Total, Short Term Energy Outlook, August 1983

		Histor	У				Projecti	ons			water widow district the time
	1982 Annual Average	1st Otr	2nd Qtr	1983 3rd Qtr	4th Otr	Annual Average	1st Otr	2nd Otr	1984 3rd Otr	4th Otr	Annual Averago
Assumptions		·····	Admiration								
Average Cost of Imported Crude Oil	33 55	30 20	28 31	28 95	(Nomi 29 00	nal Dollar 29 11	s per Ba 29 00	rrel) 29 00	29,00	29 00	29 00
Gross National Product	1,485	1,490	1,521	1,547	(Billio) 1,566	1972 Do 1,531	ollars) 1,583	1,598	1,612	1,626	1,6(%
Forecasts											
Petroleum Prices (Retail)					(Cents	per Gallo	n)				
Motor Gasoline	128.1	117.3	123,4	126.8	124 7	123 1	125,6	125,5	1235	120.2	12 (7)
Distillate Fuel Oil	1186	110 3	104.0	105.8	107 2	106 8	106 9	107 6	109 3	109.8	108 4
					(Millio	n Barrels :	oer Day)			
Crude Oil Production	8.65	8.66	8 68	8.66	8 63	8.66	8.61	8 56	8,50	8.48	8.54
Petroleum Products Supplied											
Motor Gasoline	6,54	6.29	6 68	6 78	6.61	6.59	6 34	6 66	6.77	6 59	6 59
Distillate Fuel Oil	2 67	2.83	2 52	2 10	3 01	2.62	3 39	2,59	2,33	3.24	2.89
Residual Fuel Oil	1 72	1.57	1,33	1 38	1 67	1,49	1 84	1,56	1.54	1.80	1 69
Other Petroleum Products ¹	4 37	4,32	4.23	4.63	4.74	4 48	4 69	4 54	4.87	5 02	4.78
Total Products Supplied	15.30	15.02	14 77	14 89	16 03	15 18	16.26	15 36	15,52	16.65	15.95
Total Imports ²	5,11	3.90	4.95	5 66	6 04	5 15	6 20	5 83	6.84	667	6.39

¹ Includes reclassified petroleum products

² Includes imports for the Strategic Petroleum Reserve.

	Four-Week A			Daily	lative Averages	
	For Period 10/07/83	Ending 10/07/82	Percent Change	279 1983	Days 1982	Percent Change
Crude Oil Supply						
1) Nomestic Production ¹ 2) Net Imports (Including SPR) ² 3) Gross Imports (Excluding SPR) 4) SPR Imports 5) Exports 6) SPR Stocks Withdrawn (+) or Added (-) 7) Other Stocks Withdrawn (+) og Added (-)	E8,663	8,701	-0.4	E8,664	8,644	0.2
2) Net Imports (Including SPR) ²	4,082 3,944	3,441 3,488	18.6	3,159	3,251	-2.8
 Gross Imports (Excluding SPR) SPR Imports 	283	155	13.1	3,090 244	3,323 163	-7.0
5) Exports	£145	202	-28.5	E174	235	-26.0
5) SPR Stocks Withdrawn (+) or Added (-)	-283	-159		-242	-175	
(+) Other Stocks Withdrawn (+) or Added (-)	-196	248	• •	-13	75	
B) Products Supplied and Losses ³ 9) Unaccounted-for Crude	E-67 252	-58 -112	~-	E-66	-64	
9) Unaccounted-for Crude	232	-116		216	80	
10) Crude Oil Input to Refineries	12,452	12,061	3.2	11,718	11,810	-0.8
Other Supply	C1 F21	1,521	0.7	E1 620	1 627	0.1
11) NGL Production 12) Other Hydrocarbon Input and Alcohol Input	E1,531 E58	61	-5.3	E1,539 E56	1,537 52	0.1 9.0
13) Crude Oil Product Supplied	Ē65	55	17.9	£64	61	6.0
A) Processing Gain	591	520	13.7	498	516	-3.4
15) Net Product Imports*	1,276	1,130	12.9	1,000	1,031	-3.0
(b) Gross Product Imports	1,753	1,748	0.3	1,613	1,599	0.9
I/I Product Exports _	E477	618	-22.8	E613	567	8.0
18) Product Stocks Withdrawn (+) or Added (-) ⁵	-393	-361		153	337	
19) Total Product Supplied for Domestic Use	15,580	14,987	4.0	15,030	15,344	-2.0
Products Supplied	6 354	6 501	2.0	6 500	£ 540	0.0
2N) Motor Gasoline 21) Naphtha-type Jet Fuel	6,754 175	6,501 193	3.9 -9.1	6,598 207	6,548 210	0.8 -1.3
21) Naphtha-type Jet Fuel 22) Kerosene-type Jet Fyel	902	825	9.4	836	798	4.8
23) Distillate Fuel Oil ³	2,577	2,523	2.1	2,588	2,680	-3.4
24) Residual Fuel Oil ³	1,312	1,474	-11.0	1.409	1,763	-20.1
24) Residual Fuel 011 ³ 25) Other Oils	3,860	3,471	11.2	3,392	3,346	1.4
26) Total Products Supplied	15,580	14,987	4.0	15,030	15,344	-2.0
etroleum Stocks					Percent Ch	ange from
Millions of Barrels)	10/07/	83 (09/30/83	10/07/82	Previous Week	Year Ag
Crude Oil (Excluding SPR) ⁷	353	.8	350.9	342.7	0.8	NM
Total Motor Gasoline	226		229.1	233.8	-1.0	MM
Finished Motor Gasoline	189	.9	191.8	191.3	-1.0	NM
Blending Components	36		37.3	42.4	-1.2	NM Avec
Naphtha-type Jet Fuel		•5	6.4	6.3 33.6	1.3 -2.6	NM NM
Kerosene-type Jet Fuel	34 157	.2	35.1 153.5	162.9	2.3	MM
Distillate Fuel Oil Residual Fuel Oil	46		46.8	62.2	0.2	NM
Unfinished _o 011s	113		113.2	117.0	-0.1	-3.
Other Oils	E191		E192.2	180.0	-0.7	NM
Total Stocks (Excluding SPR)	1,129	.1	1,127.3	1,138.4	0.2	NM
						/
Crude Oil in SPR	361	.3	360.5 1,487.7	279.2 1,417.5	0.2 0.2	29.4 NM

NM=Not meaningful because of different stock basis. See Appendix D.

1 Includes lease condensate.

4 Includes unfinished oils and natural gas plant liquids for processing, 5 Includes an estimate of minor product stock change based on monthly data.

The percentages shown are calculated using unrounded numbers. SOURCES:

E=Estimate based on monthly data.

¹ Includes lease condensate.
2 Net Imports = Gross Imports (line 3) + SPR Imports (line 4) - Exports (line 5).
3 In 1983 crude oil burned as fuel is treated as a product and a new category, crude oil product supplied,
has been created. In prior years crude oil burned as fuel was treated as a transfer of crude oil to
residual and distillate fuel oil product categories and was an element of the product supplied calculations of those products. Product supplied series for distillate and residual fuel oils for 1982, shown
in the second and fifth columns of the U.S. Petroleum Balance Sheet have been recalculated without these transfers.
See Appendix D. Among the product supplied categories of the balance, crude oil product supplied is included in other oils product supplied.

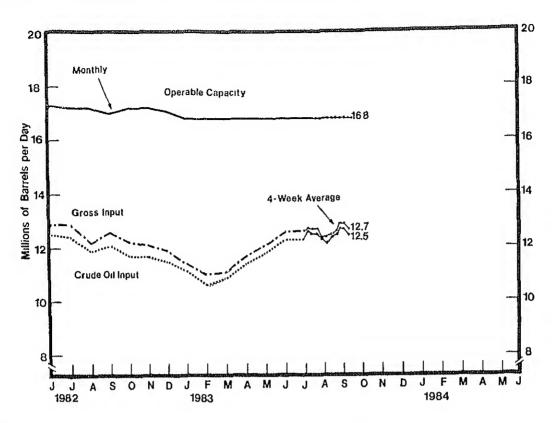
A Legudes upfinished oils and natural gas plant liquids for processing.

⁶ Other oils product supplied reflects crude oil product supplied and the reduction for reclassified products.
7 includes crude oil in transit to refineries.
8 included are stocks of all other oils such as aviation gasoline, natural gas liquids (including ethane), kerosene, petrochemical feedstocks, special naphthas, lube oils, wax, coke, asphalt, road oil, and miscellaneous oils. For the current two weeks, stocks of these minor products are estimated from monthly data. oils. For the current two weeks, stocks of these minor products are estimated from monthly data.

Note: Due to independent rounding, individual product detail may not add to total.

o 1981-1982: EIA, "Petroleum Supply Annual."

o 1983 Monthly Data: EIA, "Petroleum Supply Monthly." 1983 Four-Week Averages: Estimates based on EIA weekly data.



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981				•					AV			
Crude Oil Input	13.2	12.9	12.4	12,1	12.3	12.4	12.3	129	12,5	12 1	12.2	12.3
Gross Inputs	13.5	13 2	126	123	126	12.7	12.6	13.2	12.7	12.4	12.6	12.7
Operable Capacity	18 6	18 7	18.7	18 7	18.7	18.7	18.7	18.7	18.6	18.4	18.4	18.4
Percentage Utilization ¹	72 5	70 8	67 7	65 7	67.2	68.1	67.4	70.6	68.4	67.0	68.2	69.2
1982												
Crude Oil Input	11.6	11 2	11.3	11.4	11.8	12,5	12.4	11.9	12.1	11.7	11.7	11.5
Gross Inputs	12.0	11.6	11 7	11 8	122	129	12.9	12.2	12.6	12.2	12.1	11.9
Operable Capacity	17.9	17.8	17.8	17.8	178	17 3	17.2	17.2	17,0	17.2	17.2	17.1
Percentage Utilization ¹	67.0	65 1	65,5	66.2	68.8	74.9	74.9	71.0	73.9	70.6	70.6	69.7
1983												
Crude Oil Input	11.1	10.6	10.9	11.4	11.8	12.3	12.3					
Gross Inputs	11.4	11 0	11.1	11.7	12.1	12.6	126					
Operable Capacity	16.8	16.8	16.8	16.8	16.8	16.8	16.8					
Percentage Utilization ¹	67.9	65.4	66 0	69.3	71.6	74.9	74.9					
Average for Four-Week Po	eriod Endi	no:										
1983	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Crude Oil Input	12.6	12,5	12.5	12,3	12.2	12.4	12.5	12.7	12.7	12.5		,
Gross Inputs	12.7	12.7	12.7	12,4	12.4	12.5	12.6	12.9	12.9	12.7		
Operable Capacity	E16.8	E16.8	E16.8	E16.8	E16.8	E16.8	E16.8	E16.8	E16.8	E16.8		
Percentage Utilization ¹	75.5	75.3	75.3	74.0	73.6	74.6	75.2	76.6	76.6	75.5		
	. 0.0	. 0.0	. 0.0	, 4,0	, 5.0	74.0	70.2	70.0	700	755		

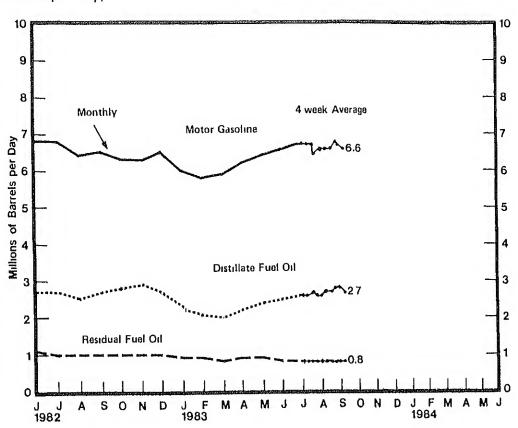
E=Estimate based on most recent monthly data
† Percentage utilization is calculated as gross impuls divided by operable capacity. See glossary. Percentages are calculated using unrounded numbers.

Source • Monthly Data 1981—1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Patroleum Supply Monthly."

• Four Week Averages. Estimates based on EIA weekly idata.

Petroleum Status Report/Energy Information Administration

U.S. Refinery Production by Product (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Motor Gasoline	6.7	6.3	6.2	6.1	6.1	62	6.4	6.6	6.6	64	6.6	6.6
Jet Fuel	10	0.9	1.0	1.0	1.0	1.0	1.0	1.0	09	0.9	1.0	0.9
Distillate Fuel Oil	3.0	2.8	2.5	2.4	2.5	2.5	2.4	2.7	2.6	2.5	2.7	2.9
Residual Fuel Oil	1.6	1.6	1.4	1.3	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.3
1982												
Motor Gasoline	6.2	5.9	6.0	6.1	6.3	6.8	6,8	6.4	6.5	6.3	6.3	6.5
Jet Fuel	0.9	1.0	1.1	1.0	0.9	0.9	1,0	1.0	1.0	1.0	1.0	0.9
Distillate Fuel Oil	2.6	2.4	2.3	2.4	2.6	2.7	2.7	2.5	27	2.8	2.9	2.7
Residual Fuel Oil	1.2	1.2	1.1	1.2	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0
1983												
Motor Gasoline	6.0	5.8	5.9	6.2	6.4	6.6	6.7					
Jet Fuel	1.0	1.0	1.0	1.0	1.0	1.0	1.0					
Distillate Fuel Oil	2.3	2.1	2.0	2.2	2.4	2.5	2.6					
Residual Fuel Oil	0,9	0.9	8.0	0.9	0.9	8.0	8.0					
Average for Four-V	Veek Per	iod Endir	na:									
1983	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Motor Gasoline	6.7	6.7	6.7	6.5	6.6	6.6	6.6	6,8	6.7	6.6		
Jet Fuel	1.0	1,0	1.0	1.0	1.0	1.0	1.0	1 1	1.1	1.1		
Distillate Fuel Oil	2.6	2.6	2,7	2.6	2.6	27	2.7	2.8	28	2.7		
Residual Fuel Oil	0.8	0.8	8.0	0.8	0.8	8.0	8.0	0.8	0.8	8,0		
Residual Fuel OII	ს.ზ	ช.บ	٥.٥	0,0	0.0	0.0	0.0	0,0	0.0	0,0		

Note. Production statistics represent net production (i.e., refinery output minus refinery input)

Source • Monthly Data 1981--1982, EIA, "Petroleum Supply Annuat," 1983, EIA, "Petroleum Supply Monthly"

• Four Week Averages Estimates based on EIA weekly data

Stocks of Crude Oil and Petroleum Products, U.S. Totals (Millions of Barrels)

1981					······································							0.46 =
Crude Oil ²	374 0	378 2	393 0	397.5	393 7	384 7	385 9	362 0	356 0	364 0	366 0	363.5
Motor Gasoline	276 1	284 0	285 0	272 1	258 3	241 6	227 7	233 3	2 37 1	236.1	248 4	2530
Finished Gasoline	226 3	229 6	232 1	223 2	2126	194 0	185 7	188 6	190 7	190 5	200 6	2034
Blending Components	498	54 4	52 9	48 9	45.7	47 6	42 0	44.7	46 4	45 6	47.8	49 5
Jet Fuel	39 5	38 6	39 0	40 4	44 5	44 9	448	44 7	43.1	42 7	42 0	41.1
Distillate Fuel Oil	179 4	172 5	164 3	164 6	171 B	179 9	186 3	200 2	207.3	201 2	200 1	191 5
Residual Fuel Oil	82 1	77 9	748	72 9	78 1	69 4	69 3	74 9	80 2	79 9	81 4	78 O
Unfinished Oils	121 5	122 3	126 2	126 5	126 3	126 1	126 1	124 5	1184	1195	1164	1113
Other Oils	202 7	199 1	198 1	206 5	208 5	220 5	225 4	2328	234 6	226 7	224 6	214.9
Total Stocks (Excl SPR)	1,275 3	1,272 5	1,280 3	1,280 5	1,288 3	1,267 1	1,265 4	1,272 5	1,2767	1,2700	1,278 9	1,253 3
Crude Oil in SPR	1125	116 1	120 9	134 2	150 1	163 1	173 1	184.7	199 2	214 8	222 5	230 3
Total Stocks (Incl. SPR)	1,387 8	1,388 5	1,401 2	1,414 8	1,438 3	1,430 2	1,438 5	1,457 2	1,4760	1,484 8	1,501.5	1,483 6
1982												
Crude Od 2	3710	3718	360 7	354.8	348 5	344 1	345 7	352 9	340 7	3510	357 6	349 7
Motor Gasoline	260 8	256 6	246 5	221 3	2139	218 5	225 9	226 9	233 6	234 4	230 0	235 4
			198 1				182 7	185 2	1911	192 4	189 3	194 4
Finished Gasoline	2132	208 4	48 5	178 6	173 1	177 1 41 4	43 2	418	42 5	42 0	40 7	40.9
Blending Components let Fuel	47 6 36 9	F148 3	42 5	42 7 44 1	40 8 41 7	39 9	398	40 7	39 6	40 9	40 6	36 B
		R36 9					148 1	158 7	161 2	170 1	185 6	178 6
Distillate Fuel Oil	164 4	147 4	126 3	108 0	1136	123 7	58 9	52 6	61.8	63.6	66 4	66 2
Residual Fuel Oil	68 7	58 5	58 1	53 6	59 0	60 7		1168	1178	1133	1118	105 3
Unfinished Oils	115.9	1165	115 9	119 1	118 2	1180	117 8		181 3	174 6	173 3	164 1
Other Oils	203.0	199 1	193 3	189 2	190 8	191 1	190 1	1864		1,147 8	1,165 2	1,136 1
Total Stocks (Excl. SPR)	1,220 6	1,186 9	1,143 4	1,090 0	1,085 7	1,096 0	1,126 3	1,134 9	1,136 1	284 6	290 0	293 B
Crude Oil in SPR	235 3	241 2	248.5	255 5	261 0	264 1	267 2	273 6	27/9		1,455 2	1,429 9
Total Stocks (Incl. SPR)	1,455 9	1,428 2	1,391 9	1,345 6	1,346 7	1,360 2	1,393 5	1,408 5	1,4140	1,432 4	1,400 2	1,427 3
1983 ³												
Crude Oil 2	360 9	366 0	358 6	365 B	354 6	353 8	342 0					
Motor Gasoline	250 9	251 1	224.0	220 B	224 6	223 2	230 6					
Finished Gasoline	208 3	207 4	183 7	182 9	186 8	183 3	189 8					
Blending Components	426	438	40 3	37 9	37 8	39.9	40 8					
Jet Fuel	41 7	40 5	42 2	40 3	413	41.3	41.7					
Distribate Fuel Orl	16B 2	147 4	118 7	103 2	109 2	1138	131 0					
Residual Fuel Oil	60 7	53 1	46 3	46 6	50 9	50 1	519					
Unfinished Oils	110 3	108 3	1113	114 1	1124	110 1	107 1					
Other Oils	159 6	159 3	162 5	167 2	177 2	184 4	189 2					
Total Stocks (Excl SPR)	1,152 2	1,125 7	1,063 6	1,057 9	1,070 3	1.076 8	1,093 5					
Crude Oil in SPR	300 6	306 1	3118	317 7	326 8	332 5	340 7					
Total Stocks (Incl SPR)	1,452 8	1,431 9	1,375 4	1,375 7	1,397 1	1,409 3	1,434 2					
	1,402 0	1,401.0	1,3704	1,0101	1,007	1,400 0	1,407 2					
Week Ending 1983 ³	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
0 4 0 2		*****										
Crude Oil ²	344 6	336 9	342 9	347 0	350 8	348.3	350 0	350 1	350.9	353 8		
Motor Gasoline	226 B	227 7	224 8	223 7	223 0	227 4	228 6	228 4	229.1	226 7		
Finished Gasoline	188.4	188 3	185 7	184 5	184 1	188 6	190,8	190 7	191,8	189 9		
Blanding Components	38.4	39 5	39 1	39 2	38 9	38.9	37 8	37,7	37,3	36 8		
Jet Fuel	40 2	39 7	39 6	39 2	39 4	39 7	40 4	41 5	41.5	40 7		
Distillate Fuel Oil	131.4	134 3	137 6	138,5	1428	146 7	150.4	153,8	153 5	157 0		
Residual Fuel Oil	48 1	46,5	45 2	44 9	46 3	44.8	46,1	48 8	468	46 9		
Unfinished_Oils	108 3	107 8	108.0	109 0	111.7	111 3	112 7	1122	1132	1130		
Other Oils 4	E188 9	E1896	E190 2	E1938	E194 4	E194 3	E194 3	E192 2	E192 2	E191 0		
Total Stocks (Excl. SPR)	1,088 3	1,082 5	1,088 3	1,096.0	1,108 4	1,112.6	1,122.5	1,127 1	1,127 3	1,129 1		
O O												
Crude Oil in SPR Total Stocks (Incl. SPR)	3418	343 9	345 7	349 0	3518	353.3	355 7	358 3	360 5	361 3		

E=Estimated See definition of "Stock Change (Refined Products)" for explanation of other oils estimate methodology

1 Product stocks include those stocks held at refineries, in pipelines, and at major bulk terminals. Stocks held at natural gas processing plants are included in "Other Oils" and in

totals. All stock levels are as of the end of the period

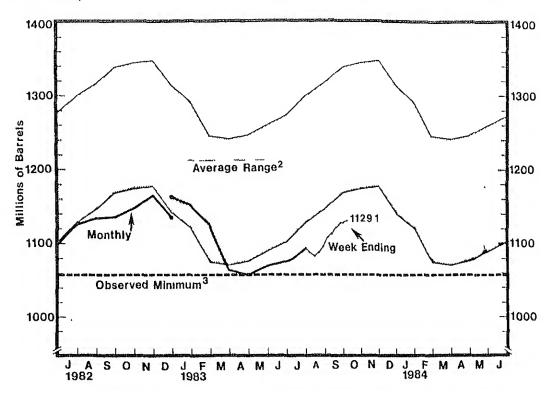
2 Crude uni stocks include those stocks held at refineries, in pipelines, in lease tanks, and in transit to refineries, and do not include those hald in the Strategic Petrolaum Reservii

3 See Appendix D for explenation of the 1983 new stock basis

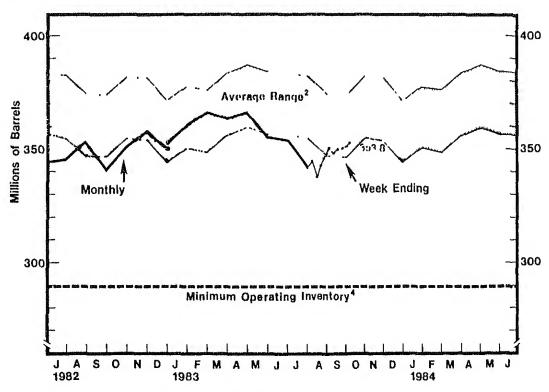
⁴ Weekly totals for stocks of other cals are estimated using monthly data. Other cals include kerosene, aviation gasoline, natural gas liquids including ethane, petrochemical ferristocks, special naphthas, lubo cal, wax, coke, asphalt, road cal, and miscellaneous cals.

Source • Monthly Data 1981–1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly."

[•] Week Ending Stocks Estimates based on EIA weekly data

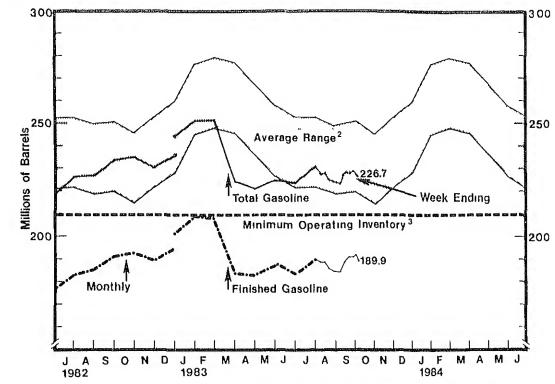


Stocks of Crude Oil, U.S. Total¹ (Millions of Barrels)

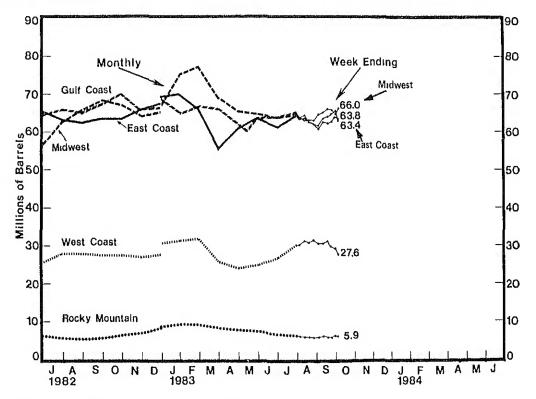


¹ Excludes stocks held in the Strategic Petroleum Reserve and includes crude oil in transit to refinerics. See Appendix D for explanation of the 1983 new stock basis. 2 Average level, width of average range, and observed minimum are based on three years of monthly date. July 1980—June 1983. The seasonal pattern is based on seven years of monthly date. January 1976—December 1982. See Appendix B for further explanation. 3 The observed minimum for total stocks in the last three year period July 1980—June 1983, was 1057.9 million barrels. It occurred in April 1983. See Appendix B for further explanation. 4 The National Petroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for crude oil to be 290 million barrels. See Appendix B for further explanation. The 1979 study is currently under routine. Source. o Ranges and Seasonal Petterns. 1976—1980, EIA, "Petroleum Statement, Annual (Final Summary)," 1981—1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly," o Monthly Data. 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly," o Week Ending Stocks. Estimates based on EIA weakly data.

Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981							4.55.7	400.0	400 7	100 =	000.0	222
Finished Gasoline	226 3	229 6	232.1	223.2	212.6	194.0	185 7	188.6	190 7	190.5	200 6	203.4
Blending Components	49 8	54 4	52 9	48.9	45.7	47 6	42.0	44.7	46.4 237 1	45.6 236.1	47 8 248.4	49 5
Total Gasoline East Coast (PAD 1)	276 1 71.7	284 0 74 2	285.0 79.5	272 1 77.9	258 3 73.1	241.6 69.5	227.7 62.7	233 3 64 3	69.6	69 6	69.7	253.0 69.5
· · · · ·	86 0	90.4	89.7	84.2		72.4	65.9	66 7	65,3	66 0	69.2	72.6
Midwest (PAD 2)	77.2	79 6	78 5	76.2	80.1	65.9	64 0	68.6	68.5	65.0	70 6	69 5
Gulf Coast (PAD 3) Rocky Mountain (PAD 4)	97	103	10.2	9.4	72.2 8.6	7.4	6,5	6.0	5.8	63	7.7	85
West Coast (PAD 5)	31 5	29 5	26 9	24 4	24.3	26 3	28.6	27.8	27.9	29.2	31.2	32.9
West Coast (PAD 5)	313	29 3	20 9	24 4	24,3	20 3	20.0	21.0	27.9	25.2	31.2	32.9
1982												
Finished Gasoline	213 2	208 4	198 1	178.6	173.1	177.1	182.7	185.2	191.1	192 4	189.3	194.4
Blending Components	47.6	48 3	48 5	42.7	40.8	41.4	43.2	41.8	42.5	42.0	40.7	40.9
Total Gasoline	260.8	256 6	246 5	221.3	213.9	218.5	225.9	226.9	233,6	234.4	230.0	235.4
East Coast (PAD 1)	71 9	69 7	66 8	61.4	63.6	65.5	63.1	62 5	63 5	63.5	66.1	67.5
Midwest (PAD 2)	77.7	78 4	74 0	62.7	56.1	56.4	62.8	65.8	69.3	67.0	64.0	65 3
Gulf Coast (PAD 3)	70.2	69.3	68.0	63.2	63.5	64.9	66.0	65.2	67.5	69 8	65 5	66 2
Rocky Mountain (PAD 4)	9.6	9.9	10 1	9,0	7.7	6.5	5.8	5.5	5.7	6.5	7.1	8.5
West Coast (PAD 5)	31 4	29 3	27 6	25.0	23.2	25.3	28.1	27 9	27.7	27.6	27.2	27 9
1983 ¹												
Finished Gasoline	208.3	207.4	183.7	182 9	186.8	183,3	189.8					
Blending Components	42.6	43.8	40.3	37.9	37.8	39.9	40.8					
Total Gasoline	250.9	251 1	224.0	220 8	224.6	223.2	230 6					
East Coast (PAD 1)	69 9	66 0	55.4	60.8	63.6	61.3	64.3					
Midwest (PAD 2)	75.3	77.2	68 3	65.4	64 6	63.7	64 6					
Gulf Coast (PAD 3)	65 0	66 6	66.3	62.7	64.0	64.7	65.1					
Rocky Mountain (PAD 4)	9 4	9 4	8.3	7.9	7.4	6.7	6.4					
West Coast (PAD 5)	31,3	31.9	25.8	24.1	25.0	26.9	30.2					
–												
Week Ending: 1983 ¹	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Englished Constant	100 4	100 2	10E 7	104.5	104 4	100.0	100.0	190 7	191.8	189.9		
Finished Gasoline	188.4 38.4	188 3 39 5	185.7	184.5	184.1	188.6	190.8	37.7	37.3	36.8		
Blending Components Total Gasoline	38.4 226.8	227.7	39.1 224.8	39,2 223,7	38.9	38.9 227.4	37.8 228.6	228 4	229.1	226.7		
East Coast (PAD 1)	63.6	64.3	62.6	61.9	223.0 61.6	63,3	63.8	64.5	65.1	63.4		
Midwest (PAD 2)	63 6	62.9	62.9	62.8	64.4	65.0	65.9	65.6	64.6	66.0		
Guif Coast (PAD 3)	63 4	63.5	62.8	61.9	60.7	62,5	62.1	62.7	64.0	63.8		
Rocky Mountain (PAD 4)	6.1	5.9	5.8	5,7	5.8	6,1	5.7	5.8	6.3	5.9		
West Coast (PAD 5)	30.2	31.2	30.7	31.4	30.5	30.5	31.1	29.8	29.1	27.6		
The second of the second	00.2	01.2	00.7	01.4	00,0	00.0	37.1	20.0	20.1	mr 10		



Stocks of Motor Gasoline by Petroleum Administration for Defense District¹ (Millions of Barrels)



¹ See Appendix D for further explanation of the 1983 new stock basis
2 Average level and width of average range for total motor gusoline are based on three years of monthly date. July 1990—June 1983. The seasonal pattern is based on six years of monthly data. 1976 and 1978—1982. See Appendix B for further explanation.
3 The National Perfolloum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for total motor gasoline to be 210 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.

Source: Ranges and Seasonal Patterns 1976—1980, EIA, "Petroleum Statement Annual (Final Summary)," 1981—1982, EIA, "Petroleum Supply Annual."

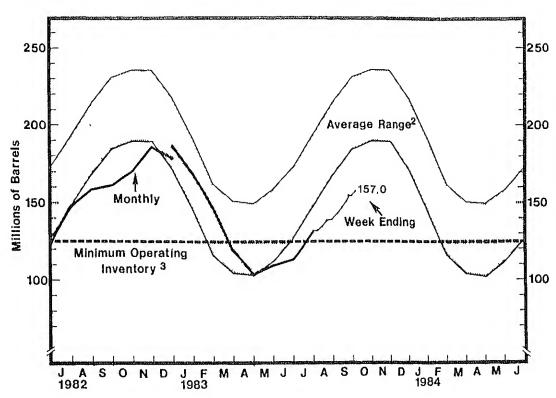
• Monthly Data. 1982, EIA, "Petroleum Supply Annual." 1983, "Petroleum Supply Monthly."

• Week Ending Stocks. Estimates based on EIA weekly data.

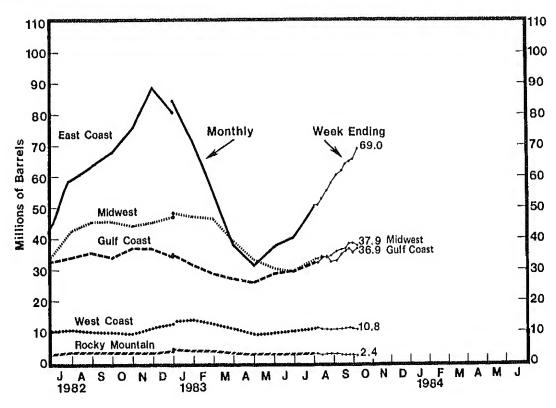
Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District (Millions of Barrels)

Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Total U.S.	179.4	172.5	164 3	164 6	171,8	179 9	186.3	200.2	207.3	201.2	200.1	1 91,5
East Coast (PAD 1)	71.9	69 8	64.7	64.4	68.2	738	81.3	86.3	92.0	94.8	96.0	87.4
Midwest (PAD 2)	57.7	56 1	52 5	52 4	50.5	48 7	49.8	54.1	54.3	51.0	51.6	50.0
Gulf Coast (PAD 3)	34.0	32 3	32.4	34 7	39,2	42.9	40.7	44.5	44.8	39.8	36.7	35.5
Rocky Mountain (PAD 4)		3,3	3.3	2.9	3 2	3.4	3.7	3.8	3.6	3.3	3.6	3.9
West Coast (PAD 5)	12.4	11.1	11 4	10.3	10 7	11 1	10.8	11.4	12.5	12.3	12 3	14.7
1982												
Total U.S.	164 4	147 4	126,3	108 0	113.6	123.7	148.1	158 7	161.2	170.1	185.6	178.6
East Coast (PAD 1)	68.3	60.3	44.7	35.0	39 1	44.2	57.4	63,9	68.0	75.7	88.7	80,6
Midwest (PAD 2)	46.7	43 1	39 5	30 8	30.8	33.7	42 6	45 5	45.6	44.2	45.3	47.0
Gulf Coast (PAD 3)	31.0	268	27.6	28.5	31.1	32.6	34.1	35.6	34.0	37,0	36.9	34.2
Rocky Mountain (PAD 4)		3,9	3.7	3 1	2.8	3.0	3.4	3.5	3.5	3.5	3.5	4.0
West Coast (PAD 5)	14.2	13 3	10.8	10.5	9.8	10 2	10.6	10.2	10.1	9,6	11.3	12.7
1983 ¹												
Total U.S.	168.2	147.4	118.7	103.2	109.2	113.8	131 0					
East Coast(PAD 1)	71,1	55.3	38 1	31.8	37.2	41.1	50.9					
Midwest (PAD 2)	47.2	46.4	39 0	33 3	30 4	29.6	33.6					
Gulf Coast (PAD 3)	31.7	28 9	27.2	26.0	28.8	29.7	32.5					
Rocky Mountain (PAD 4)		4.0	3,3	28	2.9	2.8	3.0					
West Coast (PAD 5)	14.1	12.8	11,1	9.4	99	10.6	11 0					
Week Ending:												
1983 ¹	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Total U.S.	131 4	134 3	137.6	138.5	142.8	146.7	150.4	153.8	153.5	157.0		
East Coast (PAD 1)	51,3	52.9	55.6	58.0	60.4	61.4	64.1	64.8	65.6	69.0		
Midwest (PAD 2)	33,6	34.3	34 0	34.5	35,8	36.6	36.8	38.3	38.6	37.9		
Gulf Coast (PAD 3)	32.3	33 3	34 3	32.6	32,9	35.1	35.8	36.8	35.7	36.9		
Rocky Mountain (PAD 4)		2.7	2.8	2.8	2.8	2.7	26	2.6	2.6	2.4		
West Coast (PAD 5)	11.4	11 0	11.0	10.7	108	10.9	11.1	11.3	11.1	10.8		

¹ See Appendix D for explanation of the 1983 new stock basis
Note: PAD district data may not add to total due to independent rounding
Source. • Monthly Data 1981—1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly "
• Week Ending Stocks Estimates based on EIA weekly data



Stocks of Distillate Fuel Oil by Petroleum Administration for Defense District¹ (Millions of Barrels)



¹ See Appendix D for explanation of the 1983 new stock basis.

¹ See Appendix D for explanation of the 1983 new stock basis.

2 Average level and width of average range are listed on three years of monthly date. July 1980—June 1983. The seasonal pattern is based on seven years of monthly date. July 1980—June 1983. The seasonal pattern is based on seven years of monthly date. July 1976—Occarding 1986—See Appendix B for further explanation. The 1979 study is currently under review level for distribute fuel oil to be 125 million barrels. See Appendix B for further explanation. The 1979 study is currently under review.

Source o Ranges and Seasonal Patterns 1976—1980, EIA, "Petroleum Stutement Annual (Final Summary)," 1981—1982, EIA, "Petroleum Supply Annual" o Monthly data 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Annual,

Stocks of Residual Fuel Oil by Petroleum Administration for Defense District (Millions of Bairels)

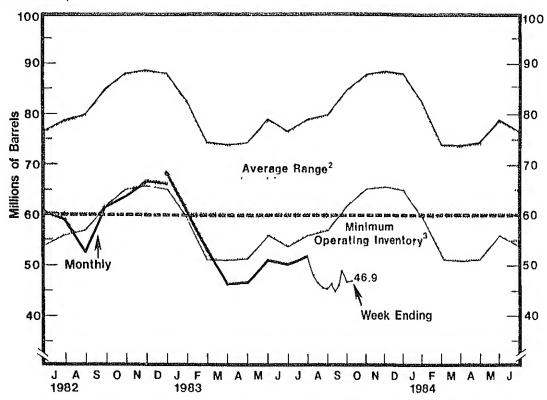
Year/District	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Total U.S.	82 1	77.9	74 8	72 9	78.1	69 4	69 3	74.9	80.2	79.9	81.4	78.0
East Coast (PAD 1)	39.0	38.5	37.3	36 3	38 2	33.6	33.0	34.4	40.0	40.4	43.0	40.1
Midwest (PAD 2)	92	9.0	7 9	7.3	7.1	7.0	7.7	8.1	8.5	8.0	8.2	8.3
Gulf Coast (PAD 3)	21.8	19.7	19.4	19.1	21.7	17,0	17.4	21 2	20.4	20.4	19.7	18.7
Rocky Mountain (PAD 4)	8 0	0.7	0.6	0.5	0.6	0.6	0.5	0.6	0.7	0.7	0.7	0.7
West Coast (PAD 5)	11 4	10 1	9.7	9.7	10.5	11 2	10.7	10.7	10 7	10.4	9.8	10.2
1982												
Total U.S	68 7	58 5	58 1	536	59.0	60,7	58.9	52.6	61.8	63 6	66.4	66.2
East Coast (PAD 1)	32.2	25 0	25.0	23.4	28.3	28.2	27.1	23.1	29.0	32.8	36.4	34.7
Midwest (PAD 2)	7.7	7.3	7.0	6.2	6.0	5,6	5.7	5.2	5.7	5 1	5.0	5.2
Gulf Coast (PAD 3)	177	14.7	14 7	13.5	15.0	17.1	16.4	15 5	16.2	15.6	161	16.3
Rocky Mountain (PAD 4)	06	07	06	05	0.5	0.5	0.5	04	0.5	0.5	0.5	0.6
West Coast (PAD 5)	10 3	10.8	10 9	10,0	9.2	93	9.3	8.4	10.4	9.6	8.4	9.3
1983 ¹												
Total U.S.	60 7	53,1	46 3	46 6	50.9	50 1	51 9					
East Coast (PAD 1)	29 9	25 1	20 6	20.3	23 8	24.0	25.3					
Midwest (PAD 2)	50	4 5	3 6	3 4	35	3.7	3 7					
Gulf Coast (PAD 3)	163	14 0	128	13.4	14 5	13.5	13.8					
Rocky Mountain (PAD 4)	0.5	0.4	0.4	0.5	0.5	0.4	0.5					
West Coast (PAD 5)	90	9 1	8 9	9.0	8.5	8.4	8.6					
Week Ending:												
1983 ¹	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Total U.S.	48.1	46.5	45.2	44.9	46.3	44 8	46.1	48.8	46 8	46 9		
East Coast (PAD 1)	220	20 8	198	20 3	21.7	20.1	20 9	22.1	20.1	21.3		
Midwest (PAD 2)	37	3 7	3.7	3.7	38	3.6	3.5	3 9	4.3	3.7		
Gulf Coast (PAD 3)	14.1	13.8	13.6	14.0	13.5	13.6	13.4	13.7	13.9	13.3		
Rocky Mountain (PAD 4)	0.6	0.6	0.5	0.5	0.5	0.5	0,5	0.5	0.4	0.4		
West Coast (PAD 5)	7.7	7 6	76	64	68	70	7.7	8.6	8.0	8,2		

¹ See Appendix D for explanation of the 1983 new stock basis

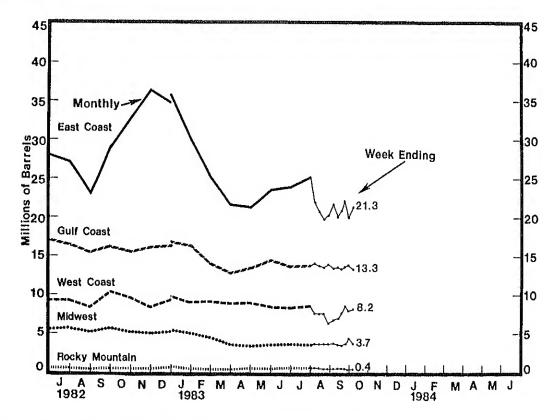
Note PAD district data may not add to total due to independent rounding

Source • Monthly Data 1981~1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly"

• Week Ending Stocks Estimates based on EIA weekly data



Stocks of Residual Fuel Oil by Petroleum Administration for Defense District¹ (Millions of Barrels)

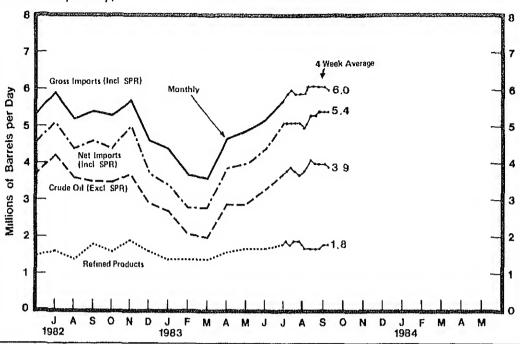


¹ See Appendix D for further explanation of the 1983 new stock basis 2 Average level and width of average range are based on three years of monthly data. July 1980—June 1983. The seasonal pattern is based on seven years of monthly data

January 1976—December 1982 See Appendix B for further explanation

3 The National Putroleum Council defines the Minimum Operating Inventory as the minimum level required for routine operation. In their 1979 study, they defined this inventory level for residual fuel oil to be 60 million lighters. See Appendix B for further explanation. The 1979 study is currently under review.

Source. o Ranges and Seasonal Patterns 1976—1980, EIA, "Petroleum Statement Annual (Final Summary)," 1981—1982, EIA, "Petroleum Supply Annual" o Monthly Data. 1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Patroleum Supply Monthly" o Week Ending Stocks. Estimates based on EIA weekly data.



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981												
Crude Oil (Excl. SPR)	48	4.8	4.4	4.1	3.9	3.7	4.1	3.9	4.3	3.9	3.8	4.0
SPR	0.1	0 1	0.1	0.3	0.4	0.3	0.2	0.3	0.4	0.5	0.3	0.2
Refined Products	1.9	1.9	1,5	1 3	1.5	1.4	1.5	1.6	16	16	1.7	1.7
Gross Imports (Incl. SPR)	6.8	68	60	5.7	5.8	5.4	5.8	5.8	64	6.0	5.7	5.8
Total Exports ¹	0.6	0.6	0.6	0.6	0.6	0.4	0.6	0.6	0.5	0.7	0.7	0.7
Net Imports (Incl. SPR)	6.3	6.2	5.4	5,1	5.2	5.0	5 2	5 1	58	5.2	5.0	5.2
1982												
Crude Oil (Excl. SPR)	3.5	2.8	2.7	27	3.1	3.7	4 2	36	3 5	35	3.7	2.0
SPR	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.2	0.2	2.9
Refined Products	1.6	1.8	16	1.5	1.5	1.5	1.6	1.4	1.8	1.6	1.9	0.1
Gross Imports (Incl. SPR)	5.3	4.8	4.5	4.4	4.8	5.3	5.9	5.2	5.4	5.3	1.8 5.7	1.6 4.6
Total Exports ¹	0.8	0.8	0.9	0.8	0.8	0.7	0.7	0.9	08	0.9	0.8	0.9
Net Imports (Incl. SPR)	4.5	4.0	3.6	36	4.0	4.6	5.1	4.4	4.6	4.4	5.0	3.7
1983												
Crude Oil (Excl. SPR)	2.7	2 1	2.0	2.0	0.0	0.0	0.0					
SPR	0.2	0.2	2.0	2.9	2.9	3.3	3.6					
Refined Products	1.4	1.4	02	0.2	0.3	0.2	0.3					
Gross Imports (Incl. SPR)	4.4	3.7	14	1.6	1.7	1.7	18					
Total Exports ¹	1.0		3.6	4.7	4.9	5.2	5.7					
Net Imports (Incl. SPR)	3.4	0.9	0.8	0.8	0.8	0.8	0.6					
The state of the state of the	3.4	2.8	2.8	3 9	40	4.4	5.1					
Average for Four-Week Peri-	od Endin	g:										
1983	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Crude Oil (Excl. SPR)	3.8	3.9	3.8	3.7	3.8	4.1	4.0	4.0	4,0	3.9	· · · · · · · · · · · · · · · · · · ·	
SPR	0.3	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3		
Refined Products	1.9	1.8	1.9	1.9	1.7	1.7	1.7	17	1.8	1.8		
Gross Imports (Incl. SPR)	5.9	6.0	5,9	5.9	5.9	6.1	6.1	6,1	6.1	6.0		
Total Exports	E0.8	E0.8	E0.8	E0.8	E0.8	E0.8	E0.8	E0.7	E0.7	E0.6		
Net Imports (Incl. SPR)	5.1	5.1	5,1	5.1	5,0	5.3	5 3	5.4	5.4	5.4		

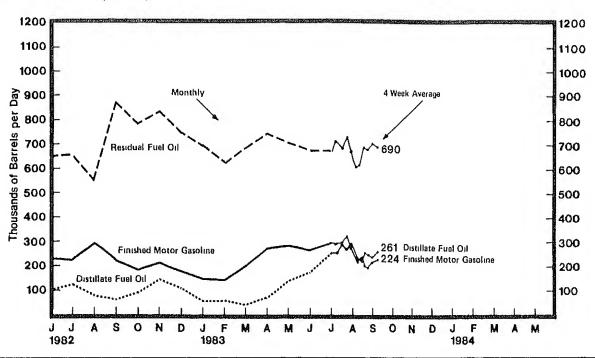
E=Est imate based on most recent monthly date evaluable

I includes exports of crude oil and refined petroleum products. Exports of crude oil are prohibited under normal circumstances. Some crude oil is shipped to Cenada in exchange on a barrel for barrel basis. Shipments of crude oil to Puerto Rico and the Virgin Islands are not prohibited because these territories are U.S. possessions.

Note. Detail date may not add to total due to independent rounding.

Source. • Monthly Data. 1981—1982, EIA, "Petroleum Supply Annual." 1983, EIA, "Petroleum Supply Monthly."

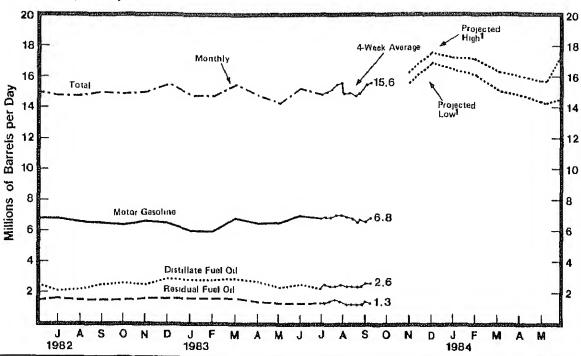
• Four Week Averages. Estimates based on EIA weekly date.



1981 Finished Motor Gasoline Jet Fuel Distillate Fuel Oil Residual Fuel Oil Other1	138 15 273 ,015 453	111 38 325 954 471	171 76 147 699 414	186 55 116 584 389	150 47 179 741	186 68 225	151 35	124 47	169 46	147 14	148 9	197 7
Jet Fuel Distiflate Fuel Oil Residual Fuel Oil 1 Other1	15 273 ,015 453	38 325 954	76 147 699	55 116 584	47 179	68	35	47				
Distillate Fuel Oil Residual Fuel Oil 1 Other1	273 ,015 453	325 954	147 699	116 584	179				46	14	9	-7
Residual Fuel Oil 1 Other1	,015 453	954	699	584		225						-
Other1	453				741		179	174	129	119	124	95
		471	414	389		540	830	819	841	786	880	916
1982					371	356	327	424	438	514	533	491
Finished Motor Gasoline	128	133	183	185	182	230	225	291	223	185	211	178
Jet Fuel	10	62	39	47	31	3	31	26	30	20	40	7
Distillate Fuel Oil	97	132	48	59	74	102	125	80	61	91	145	109
Residual Fuel Oil	831	956	912	788	742	652	657	550	872	783	836	747
Other1	573	533	427	449	474	504	604	445	592	557	650	564
1983												
Finished Motor Gasoline	148	142	205	273	284	265	297					
Jet Fuel	27		35	15	35	25	22					
Distillate Fuel Oil	58	58	42	73	141	175	259					
Residual Fuel Oil	691	632	686	743	709	676	682					
Other ¹	510	583	429	486	495	575	563					
Average for Four-Week Period	d Endin	u.										
1983	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Finished Motor Gasoline	292	295	323	276	220	239	205	192	218	224		
Jet Fuel	19	13	12	20	37	34	203 56	64	58	60		
Distillate Fuel Oil	257	290	270	294	238	225	252	248	238	261		
Residual Fuel Oil	714	685	726	672	605	607	677	673	704	690		
Other ¹	564	542	569	624	554	579	556	532	533	519		

¹ Includes imports of kerosene, unfinished oils, motor gasoline blending components, liquefied petroleum gases and other oils Source. • Monthly Data. 1981-1982, EIA, "Petroleum Supply Annual," 1983, EIA, "Petroleum Supply Monthly" • Four-Week Averages: Estimates based on EIA weekly data.

Petroleum Products Supplied (Millions of Barrels per Day)



Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981						***				*************		
Motor Gasoline	6.4	6.3	6.3	6.6	6.6	7.0	6.8	6.6	6.7	6.6	6.4	6.7
Jet Fuel	1.1	1.0	1.1	1.0	0.9	1.0	1.1	1.0	1.0	0.9	1.0	1.0
Distillate Fuel Oil ²	4.1	3.4	2.9	2.5	2.4	2.4	2.4	2.4	2.5	2.8	2.9	3,2
Residual Fuel Oil ²	2.9	2.5	2.1	1.9	1.8	2.0	2.0	1.8	1.9	1.9	1.9	2.3
Other	3.9	3.8	3.5	3.4	3.7	3.7	3.4	3.5	3.8	3.6	3.4	3.4
Total	18.4	17.0	15.9	15 4	15.4	16.1	15.7	15.3	15.9	15.8	15.6	16.6
1982												
Motor Gasoline	6.0	6.2	6.5	6.9	6.7	6.8	6.8	6.6	6.5	6.4	6.6	6.5
Jet Fuel	1.0	1.1	10	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1
Distillate Fuel Oil ²	3.5	3.1	2.9	3.0	2,4	2.5	2.1	2.2	2.5	2.6	2.5	2.9
Residual Fuel Oil 2	2.2	2.3	1.9	1.9	1,6	1.5	1.6	1.5	1.5	1.5	1.6	1.6
Other	3.5	3.3	3,3	3.2	3.2	3.2	3.4	3.5	3.5	3.4	3.3	3.4
Total	16.1	16.0	15.6	16,0	14.8	15 0	14.8	14.8	15.0	14.9	15.0	15.5
1983												
Motor Gasoline	6.0	6.0	6.8	6.5	6.5	7.0	6.8					
Jet Fuel	0.9	1.0	1.0	1.1	1.0	1.1	1.0					
Distillate Fuel Oil ²	2.8	2.8	2.9	2.7	2.3	2.5	2.2					
Residual Fuel Oil ²	1.6	1.6	1.6	1.4	1.3	1.3	1.3					
Other	3,5	3.3	3.2	3.1	3.1	3,4	3.6					
Total	14.8	14.8	15.5	14.8	14.3	15.3	14.9					
Average for Four-We	ek Perio	d Endino:										
1983	8/5	8/12	8/19	8/26	9/2	9/9	9/16	9/23	9/30	10/7		
Motor Gasoline	6.9	6.9	7.0	7.0								
Jet Fuel	1.1	1.1	1.1	7.0 1.1	6.9	6.8	6.6	6.7	6.6	6.8		
Distillate Fuel Oil ²	2.5	2.4	2.4	2.5	1.1	1.1	1.1	1.1	1.1	1.1		
Residual Fuel Oil ²	1,3	1.4	1.5	1.4	2.4 1.2	2.4	2.4	2.4	2.6	2.6		
Other	3.4	3.3	3.6	3.6	3,4	1.2	1.2	1.2	1.4	1.3		
Total	15.0	15.2	15.5	15.6	15. 0	3,5 15.0	3.5 14,9	3.7 15.0	3.8	3.9		
				.0.0	10.0	10.0	14,5	10'0	15.5	15.6		

¹ Projected: See Appendix C for explanation of derivation of values
2 deginning in 1983, crude oil burned as residual fuel oil or distribute fuel oil is no longer reported to EIA and therefore is not included in 1983 product supplied calculations for these fuels.
The product supplied series for distribute and residual fuel oil for 1981 and 1982 shown on this page are the values published in 1981 and 1982 EIA publications and include crude oil transfers follout 48 thousand barrels per day for residual fuel oil and 10 thousand barrels per day for distribute fuel oil. See Appendix D for further explanation.

Note: Detail data may not add to total due to independent rounding.

Source: Monthly Data: 1981—1982, EIA, "Petrolium Supply Annual," 1983, EIA, "Petrolium Supply Monthly."

Four Wask Averages: Estimates based on EIA weekly data
Projections: FIA, Office of Energy Markets and £nd Use (August 1983).

Year/Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1981		····			***		***					** **
Motor Gasoline												
Leaded Premium	133.8	141.0	144 9	145.1	144.7	144.6	144.6	144.4	145.6	145.7	1462	146.0
Leaded Regular	123.8	132.1	135.2	134.4	1333	132,4	131.5	131.0	130 5	129.9	129.7	129.3
Unleaded Regular	129.8	138.2	141.7	141.2	140.0	139.1	138.2	137.6	137.6	137.1	1369	136.5
All-types	126.9	135 3	138.8	138.1	137.0	136 2	135.3	134.8	135.8	135.3	135.1	1348
Residential Heating Oil	114.4	123.4	125.5	123.9	122.7	120.9	121.0	119 4	119,7	118.8	120.8	122.0
1982												
Motor Gasoline												
Leaded Premium	145.6	143.8	140.7	136 8	137.9	140.8	145.0	145.8	144.1	141.3	141.2	137.2
Leaded Regular	128.5	126.0	120.6	114.8	116.6	124.2	126.3	125 4	123.6	121.9	120.7	118.1
Unleaded Regular	135.8	133 4	128.4	122.5	123 7	130.9	133.1	132.3	130.8	129.5	128.3	126.0
All-types	134.1	131.8	126.8	121.0	122.4	129.6	131.8	131.0	129 5	128.0	126.8	124.4
Residential Heating Oil	122.0	120.7	115.3	113.2	114.3	116.2	115.8	115.9	115.2	119.6	121.6	119.7
nesidential reading Off	122.0	120.7	110,3	113.2	114.5	110.2	110,0	115.9	110.2	119.0	121.0	119.7
1983												
Motor Gasoline												
Leaded Premium	135.3	131.8	127.4	132.1	137.6	142.9	144.6	143.7				
Leaded Regular	114.6	109.9	106.4	113.1	117.7	119.7	120.7	120.3				
Unleaded Regular	122.8	118.7	115.1	121.5	125.9	127.7	128.8	128.5				
All-Types	121.3	117.0	113.5	119.8	124.3	126.1	127.2	126 9				
Residential Heating Oil ¹	114.7	111.4	104.9	103.5	104.8	106.0	P105 4					

P≂Preliminary 1 Beginning in January 1983, residential heating oil prices do not include taxes

Refiner Acquisition Cost of Crude Oil (Dollars per Barrel)

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
				·							
32.71	36.27	36.97	35.58	35.21	34.20	33,76					33.51
38.85	39.00	38,31	38.41	37.84	37.03	36.58	35.82	35.44			35.95
34.86	37.28	37.48	36.58	36,11	35.03	34.70	34.46	34.11	34.07	34 33	34 33
33 30	32 71	31.08	30.27	30.37	30.79	30.92	30.85	30.76	31 38	31,57	30.80
								33.03	33.28	33 09	32.85
									31.98	32.07	31.29
33.95	33.40	31,01	30,03	01.02	0174	9174	01.10	07.10	31.00		+ - ,
30.55	29.16	28.69	28.45	28.68	28.67	28.74					
	30.76	28,43	27.95	28.53	29.23	28.76					
30.73	29.49	28.64	28.33	28.64	28.85	28.75					
	32.71 38.85 34.86 33.39 35.54 33.95	32.71 36.27 38.85 39.00 34.86 37.28 33.39 32.71 35.54 35.48 33.95 33.40 30.55 29.16 31.40 30.76	32.71 36.27 36.97 38.85 39.00 38.31 34.86 37.28 37.48 33.39 32.71 31.08 35.54 35.48 34.07 33.95 33.40 31.81 30.55 29.16 28.69 31.40 30.76 28.43	32.71 36.27 36.97 35.58 38.85 39.00 38.31 38.41 34.86 37.28 37.48 36.58 33.39 32.71 31.08 30.27 35.54 35.48 34.07 32.82 33.95 33.40 31.81 30.83 30.55 29.16 28.69 28.45 31.40 30.76 28.43 27.95	32.71 36.27 36.97 35.58 35.21 38.85 39.00 38.31 38.41 37.84 34.86 37.28 37.48 36.58 36.11 33.39 32.71 31.08 30.27 30.37 35.54 35.48 34.07 32.82 32.78 33.95 33.40 31.81 30.83 31.02 30.55 29.16 28.69 28.45 28.68 31.40 30.76 28.43 27.95 28.53	32.71 36.27 36.97 35.58 35.21 34.20 38.85 39.00 38.31 38.41 37.84 37.03 34.86 37.28 37.48 36.58 36.11 35.03 33.39 32.71 31.08 30.27 30.37 30.79 35.54 35.48 34.07 32.82 32.78 33.79 33.95 33.40 31.81 30.83 31.02 31.74 30.55 29.16 28.69 28.45 28.68 28.67 31.40 30.76 28.43 27.95 28.63 29.23	32.71 36.27 36.97 35.58 35.21 34.20 33.76 38.85 39.00 38.31 38.41 37.84 37.03 36.58 34.86 37.28 37.48 36.58 36.11 35.03 34.70 33.39 32.71 31.08 30.27 30.37 30.79 30.92 35.54 35.48 34.07 32.82 32.78 33.79 33.44 33.95 33.40 31.81 30.83 31.02 31.74 31.74 30.55 29.16 28.69 28.45 28.68 28.67 28.74 31.40 30.76 28.43 27.95 28.53 29.23 28.76	32.71 36.27 36.97 35.58 35.21 34.20 33.76 33.79 38.85 39.00 38.31 38.41 37.84 37.03 36.58 35.82 34.86 37.28 37.48 36.58 36.11 35.03 34.70 34.46 33.39 32.71 31.08 30.27 30.37 30.79 30.92 30.85 35.54 35.48 34.07 32.82 32.78 33.79 33.44 32.95 33.95 33.40 31.81 30.83 31.02 31.74 31.74 31.45 30.55 29.16 28.69 28.45 28.68 28.67 28.74 31.40 30.76 28.43 27.95 28.63 29.23 28.76	32.71 36.27 36.97 35.58 35.21 34.20 33.76 33.79 33.47 38.85 39.00 38.31 38.41 37.84 37.03 36.58 35.82 35.44 34.86 37.28 37.48 36.58 36.11 35.03 34.70 34.46 34.11 33.39 32.71 31.08 30.27 30.37 30.79 30.92 30.85 30.76 35.54 35.48 34.07 32.82 32.78 33.79 33.44 32.95 33.03 33.95 33.40 31.81 30.83 31.02 31.74 31.74 31.45 31.40 30.55 29.16 28.69 28.45 28.68 28.67 28.74 31.40 30.76 28.43 27.95 28.63 29.23 28.76	32.71 36.27 36.97 35.58 35.21 34.20 33.76 33.79 33.47 33 48 38.85 39.00 38.31 38.41 37.84 37.03 36.58 35.82 35.44 35.43 34.86 37.28 37.48 36.58 36.11 35.03 34.70 34.46 34.11 34.07 33.39 32.71 31.08 30.27 30.37 30.79 30.92 30.85 30.76 31 38 35.54 35.48 34.07 32.82 32.78 33.79 33.44 32.95 33.03 33.28 33.95 33.40 31.81 30.83 31.02 31.74 31.74 31.45 31.40 31.98 30.55 29.16 28.69 28.45 28.68 28.67 28.74 31.40 30.76 28.43 27.95 28.63 29.23 28.76	32.71 36.27 36.97 35.58 35.21 34.20 33.76 33.79 33.47 33 48 33.49 38.85 39.00 38.31 38.41 37.84 37.03 36.58 35.82 35.44 35.43 36.21 34.86 37.28 37.48 36.58 36.11 35.03 34.70 34.46 34.11 34.07 34 33 33.39 32.71 31.08 30.27 30.37 30.79 30.92 30.85 30.76 31 38 31.57 35 54 35.48 34.07 32.82 32.78 33.79 33.44 32.95 33.03 33.28 33 09 33.95 33.40 31.81 30.83 31.02 31 74 31 74 31.45 31.40 31.98 32.07 30.55 29.16 28.69 28.45 28.68 28.67 28.74 31.40 30.76 28.43 27.95 28.63 29.23 28.76

Source • Form EIA 14, "Refiners Monthly Cost Report "

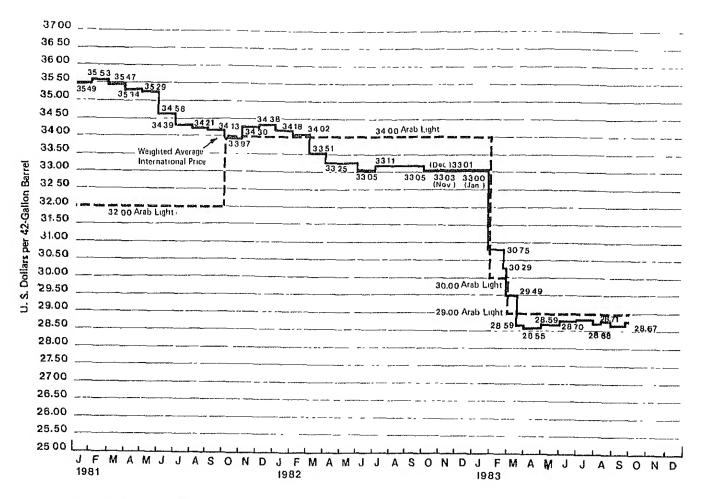
Note. Motor gasoline data include prices from self service stations. Beginning with September 1981, the Bureau of Labor Statistics has changed the weights used in the calculation of average motor gasoline prices. In the "all types" category gasohot is now included, and unleaded premium is weighted more heavily.

• Motor Gasoline—Bureau of Labor Statistics. See glossary for descriptions of survey.

• Residential Heating Oil—1981 1982. Form EIA—9A, "No. 2 Distillate Price Monitoring Report."

1983. Forms EIA—782A, "Monthly Petroleum Product Sales Report," and EIA—782B, "Monthly No. 2 Distillate Sales Report."

World Crude Oil Prices¹ (Dollars per Barrel)



¹ Internationally traded oil only Average price (FOB) weighted by estimated export volume

Note Beginning with the May 1, 1981 issue of the Weekly Petroteum Status Report, the world crude oil price is based on a revised crude list Additions Saudi Arabia's Arabian Heavy, Dubai's Fatch, Egypt's Sucz Blend, and Mexico's Maya Omissions Canadian Heavy Replacements Iraq's Kirkuk Blend for Iraq's Barrah Light

The above graph shows an estimated world crude oil price based on this revised list beginning January 1, 1981

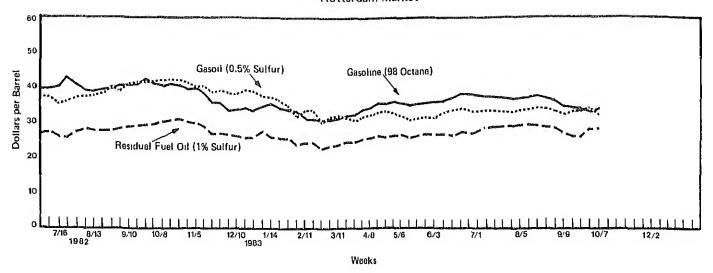
	Type of Crude/						Percerat Change Current Price From		
Country	API Gravity	Current Price	In Effect 1 Jan 82	In Effect 1 Jan 81	In Effect 1 Jan 80	In Effect 31 Dec 78	In Effect 1 Jan 80	in Effect 31 Dec 78	
OPEC						···			
Studi Arabia	Arabian Light 34 ⁰ (Bench mark crude)	29 00	34 00	32 00	26 00	12 70	115	128 3	
	Saudi Berri 390	29,52	35 40	33 52	27 52	13 23	7 3	123 1	
u ot t	Arabian Heavy 270	26,00	31 00	31 00	25 00	12 02	4 0	1163	
Abu Dhabi	Murban 39°	29 56	35 50	36 56	29 56	13 26	0	122 9	
Dubai	Fateh 32 ⁰	28,86	33 86	35 93	27 93	12 64	33	128 3	
Catar	Dukhan 40 ⁰	29 49	35 45	37 42	2 29 42 30 00	13 19	02	123 6	
Iran	Iranian Light 34 ⁰ Kirkuk 36 ⁰	28 00	34 20	37 00	² 30 00	13 45	67	108 2	
Iraq	Kirkuk 36°	29 83	34 93	37 50	29 29	13 17	1.8	126 5	
Kuwatt	Kuwait Bland 310	27 30	32 30	35 50	27 50	12 22	0.7	123 4	
Neutral Zone	Khafji 280	26 03	31 03	25 20	27 20	12 03	43	116 4	
Algeria	Saharan 440	30 50	37 00	40 00	33 00	14 10	7 6	116.3	
Nigoria	Bonny Light 37 ⁶	30 00	36 50	40 00	29 97	15 12	01	98 4	
Libya	Es Sider 370	30 15	36 50	40 78	34 50	13 68	12 6	120 4	
Indonesia	Minas 34 ⁰	29 53	35 00	35 00	27 50	13 55	7 4	117 9	
Venezuela	Tia Juana 26 ⁰	27 88	32 88	32 88	25 20	12 72	10 6	119 2	
Gabon	Mandji 30 ⁰	29 00	34 00	35 00	28 00	12 59	36	130 3	
Ecuador	Oriente 30°	28 20	34 25	40 06	33 60	12 35	-15 8	128 3	
Total OPEC ³	NA	28.63	34,13	34 82	28.30	13 03	1 2	119.7	
Non OPEC									
United Kingdom	Forties 360	29 75	36 50	39.25	29 75	14,00	0	112 5	
Norway	Ekofisk 42 ⁰	30 25	37 25	40.00	32 50	14 20	6.9	113 0	
Mexico	Mexican Light 33 ⁰	29 00	35 00	38,50	32 00	13 10	9 4	121 4	
"	Mexican Heavy 220	25.00	26 50	34 50	28.00	NA	107	ΝA	
Egypt	Suez Blend 33 ^o	⁴ 28 50	34 00	40.50	34 00	12 81	16 2	122 5	
Oman	Oman 34 ^o	29 00	35 00	37 50	30,26	1306	4.2	122 1	
Syria	Suwadiyah 25° Miri 38°	25 00	30 00	36 03	31,39	11 64	20.4	114.8	
Malaysia	Mıri 38 ⁰	29 85	36 50	41.30	33 60	14 30	11,2	108.7	
Brunei	Seria 36°	30 10	36 10	40 35	33 40	14 15	9,9	112 7	
U.S S.R. ^g	Export Blend 33 ⁰	29 50	35 49	39.25	33 20	13.20	-11 1	123 5	
Total Non OPEC 3	NA	28 77	34 35	38 54	31,94	13 44	9.9	114.1	
Total World ³	NA	28 67	34 18	35 49	28 84	13 08	0.6	119.2	
United States6	NA	28,23	34,15	36 69	29 35	13 38	-38	111 0	

NA=Not Applicable

1 Official sales prices or estimated term contract prices, spot prices excluded
2 37c higher at 60 days' credit
3 Average prices (FOB) weighted by estimated export volume
4 On 60 days' credit
5 Average delivered cost to Northwest Europe.
6 Average prices (FOB) weighted by estimated import volume
Source. • DOE, Office of International Affairs, October 11, 1983
• Platt's Oligram Price Report.
• Petroleum Intelligence Weukly
• Oil Buyers' Guido
• Europe Oil Prices

J

Rotterdam Market



New York Market 60 50 Heating Oil (0.2% Sulfur) Gasoline (89 Octane) Dollars per Barrel Residual Fuel Oil (1% Sulfur) 20 10

Weeks

8/5

10/7

Source, • Oil Buyers' Guide Weekly Oil Market Product Report Not published weeks of July 4 and December 25
• DOE, Office of International Affairs

8/13 1982

		Motor (Gasoline	Gasoil/H	eating Oil ¹	Residual	Fuel Oıl ²
		Rotterdam (98 Octane)	N.Y. ³ (89 Octane)	Rotterdam (0.5% Sulfur)	N.Y. ⁴ (0.2% Sulfur)	Rotterdam (1% Sulfur)	N.Y. ³ (1% Sulfur)
1982 Oct	1	41.03	38 54	41 96	41,58	29.88	30.25
	8	40 15	38 96	42 29			
	15	41 03	38 74	42.96	42 00	30 33	30 35
	22	40.04	39 69	42.96	42.42 42.74	30 48	31 00
	29	39 39	38.96	41.42		30 78	31 35
Nov	5	39.80	38 45	39.88	41,37	30.26	30 75
	12	38 22	38.56	40 28	41,37	29 95	30 50
	19	36.11	37 02	38.81	40 32	28 75	30 00
	26	36.28	36 33	38 87	38 .85 37.06	26.88	28.00
Dec	3	33 65	35.76	38 67	35.07	26.88 26 95	27 50 26 75
	10	33 88	36.50	38 20	36.96	26 80	26 75
	17	34.00	35 13	39.75	36.12	26.73	25 75 26 25
	24	33 70	34.92	39.28	34.86	26.73	26 35
	31	Not availabl	е.	33.20	34.00	20.73	26.35
983 Jan	7	34.88	35.13	37.73	34 86	27 55	25.75
	14	35 46	34 82	37 47	34.44	26 73	25 75
	21	34 29	36 29	37.00	35 60	26 58	26 00
~ .	28	33.88	35.03	34 45	33.08	25 98	25 50
Feb	4	33.70	34.57	32.37	32.55	23.87	25.00
	11	31.48	34.82	33.98	32 76	24.47	26 00
	18	31 48	34 82	33 98	32.76	24 47	26 00
	25	30 72	33.24	30 63	31.08	22.97	25.00
Mar	4	31.01	32.99	31.70	30,56	23.50	25.25
	11	31.65	33.41	31.70	30,45	24.17	25 25
	18	32.30	34 57	31.64	30.56	24.92	25.25
	25	32 53	35 57	30.90	30.76	24 70	25 25
Apr	1	33 82	36.77	31 70	31.71	25.23	25 75
	8	34 70	36.77	32.51	32.66	25.30	26.00
	15	36.69	37.09	33.58	34.65	25 90	26.50
	22	35.58	37 40	33 78	35.28	25 60	2 6 75
	29	36 75	37 19	33 51	35 49	25.98	26 75
May	6	36 28	36.88	32.51	34.54	25.98	27.00
	13	34 94	36 67	31.57	33.18	25 30	26 50
	20	35 35	36 98	31.97	33.28	25,75	27 00
1	27	35 58	37.19	32.24	33.50	26 13	27.25
Jun	3	35 76	37.19	32.10	33 28	25.98	27.50
	10	35.81	37.32	33.24	3 3,39	2 5.98	27 60
	17	36.87	37.84	33.38	34 12	25.83	28.05
Jut	24	37.87	37 84	33.51	34,23	26 80	28 50
Jul	1	37.16	37.42	32.84	34.02	26.28	28.35
	8	Not available		00.45			
	15	36.81	36.62	33.18	34.23	28.00	29 00
	22 29	36.28	36.63	33.18	34.23	28.23	28 75
Aug		36.05	36 52	33.04	34.34	28 15	28 75
~ug	5 12	36.22 36 40	36.64	33.71	3 5.18	28.53	28 75
	19	36.52	36.52	34 18	3 5.28	28.68	29 00
	26	36.34	36.52	34 79	35 28	28 53	29.00
Sep	2	35.87	36,73	34.65	3 5.28	28 38	29 35
ach			36.29	34.18	35.07	28 08	29 25
	9	34.47	35.99 35.78	33.58	34.65	27.33	28.75
	16	34.35 34.41	35 78 35 97	33.44	34.86	26.95	28 75
	23	34.41	35.87	33.85	35.01	26.95	28 75
O-+	30	33.24 33.41	34.92	33.71 22.51	34.02	27.63	28.75
Oct	7	33.41	34.29	32.51	33.50	27.40	28.00

¹ Refers to No. 2 Heating Oil
2 Refers to No. 6 Oil
3 East Coast Cargoes
4 New York Harbor Reseller Barge Prices
Source. • Oil Buyers' Guide, Weakly Oil Market Product Report Not published weeks of July 4 and December 25
• DOE, Office of International Affairs.

Appendix A. EIA WEEKLY DATA: SURVEY DESIGN AND ESTIMATION METHODS

The Weekly Petroleum Reporting System (WPRS) comprises five surveys the "Weekly Refinery Report" (EIA-800); the "Weekly Bulk Terminal Report" (EIA-801), the "Weekly Product Pipeline Report" (EIA-802), the "Weekly Crude Oil Stocks Report" (EIA-803), and the "Weekly Imports Report" (EIA-804). The EIA weekly reporting system, as part of the Petroleum Supply Reporting System, was designed to collect data similar to those collected monthly. In the WPRS, selected petroleum companies report weekly data to EIA on crude oil and petroleum product stocks, refinery inputs and production, and crude oil and petroleum product imports. On the Forms EIA-800 through EIA-803, companies report data on a custody basis. On the Forms EIA-804, the importer of record reports each shipment entering the United States. Current weekly data and the most recent monthly data are used to estimate the published weekly totals.

Sample Frame

The sample of companies that report weekly in the WPRS was selected from the universe of companies that report monthly. All sampled companies report data only for facilities in the 50 States and District of Columbia. The EIA-800 sample frame includes all petroleum refineries in the United States and its territories, industrial facilities that have crude oil distillation capacity and produce some refined petroleum products, and bulk terminals that blend motor gasoline. The EIA-801 sample frame includes all bulk terminal facilities in the United States and its territories that have total bulk storage capacity of 50,000 barrels or more, or that receive petroleum products by tanker, barge, or pipeline. The EIA-802 sample frame includes all petroleum product pipeline companies in the United States and its territories that transport refined petroleum products, including interstate, intrastate and intracompany pipeline movements. Pipeline companies that only transport natural gas liquids are not included in the EIA-802 frame. Only those pipeline companies which transport products covered in the weekly survey are included. The EIA-803 sample frame consists of all companies which carry or store crude oil of 1,000 barrels or more. Included are gathering and trunk pipeline companies (including interstate, intrastate, and intracompany pipelines), crude oil producers, terminal operators, storers of crude oil, and companies transporting Alaskan crude oil by water. The EIA-804 sample frame includes all importers of record of crude oil and petroleum products into the United States.

Sampling

The sampling procedure used for the weekly system is the cut-off method. In the cut-off method, companies are ranked from largest to smallest on the basis of the quantities reported during some previous period. Companies are chosen for the sample beginning with the largest and adding companies until the total sample covers about 90 percent of the total for the previous time period.

	Refiners (Refineries)	Bulk Terminals	Pipelines	Crude Oil Stock Holders	Importers
Weekly Form	E1A-800	EIA-801	EIA-802	EIA-803	EIA-804
Monthly Frame Size	172(300)	276	78	168	1086
Weekly Sample Size	60(165)	88	46	82	62

Collection Methods

Data are collected by mail, mailgram, telephone, Telex, and Telefax on a weekly basis. All canvassed firms and terminal operating companies must file by 5:00 p.m. on the Monday following the close of the report period, 7 a.m. Friday. During the processing week, company corrections of the prior week's data are also entered.

Estimation and Imputation

After the company reports have been checked and entered into the weekly data base, ratio estimates of the weekly totals are calculated from the reported data. First, the current week's data for a given product reported by companies in that region are summed. (Call this weekly sum, W₂). Next, the most recent month's data for the product reported by those same companies are summed. (Call this monthly sum, M₂). Finally, let M₂ be the sum of the most recent month's data for the product as reported by all companies. Then, the current week's ratio estimate for that product for all companies, W₄, is given by.

$$W_t = \frac{M_t}{M_s} \cdot W_s$$

This procedure is used directly to estimate total weekly inputs to refineries and production. To estimate stocks of finished products, the preceding procedure is followed separately for refineries, bulk terminals, and pipelines. Total estimates are formed by summing over establishment types.

Weekly Imports data are highly variable on a company-by-company basis or a week-by-week basis. Therefore, an exponentially smoothed ratio has been developed. The estimate of weekly imports is the sum of the smoothed ratio multiplied by the weekly values and estimates for shipments from Puerto Rico. Imports of other oils includes an adjustment from Census data for unlicensed products because of coverage differences between the monthly imports data and Census data.

Explicit imputation is done for companies which do not respond in a given week. The imputed values are exponentially smoothed means of recent reports from the specific company.

Response Rates

The response rate as of the day after the filing deadline is about 80 percent for the EIA-800; 75 percent for the EIA-801; 95 percent for the EIA-802; 80 percent for the EIA-803; and greater than 95 percent for the EIA-804. However, more forms are received the next day, bringing the final response rates up. Late respondents are contacted by telephone. Nearly all of the major companies report on time. The nonresponse rate for the published estimates is usually between 2 percent and 5 percent.

Appendix B. INTERPRETATION AND DERIVATION OF AVERAGE INVENTORY LEVELS

The national inventory (stocks) graphs for total petroleum products, crude oil, motor gasoline, distillate fuel oil, and residual fuel oil in this publication include features to assist in comparing current inventory levels with past inventory levels and with judgments of critical levels. Methods used in developing the average inventory levels and minimum operating levels are described below.

Average Inventory Levels

The charts displaying inventory levels of total petroleum products (p. 7), crude oil (p. 7), motor gasoline (p. 9), distillate fuel oil (p. 11), and residual fuel oil (p. 13) provide the reader with actual inventory data compared to an "average range" from the most recent 3-year period running from January through December or from July through June. The ranges are updated every six months in March and October. The 3-year period is adjusted by dropping the oldest 6 months and including the most recent 6 months. The ranges also reflect seasonal variation determined from a longer time period. The seasonal factors, which determine the shape of the upper and lower curves, are updated annually in October, using the most recent year's final monthly data.

The monthly seasonal factors are estimated by means of a seasonal adjustment technique developed at the Bureau of Census (Census X-11). The seasonal factors are assumed to be stable (i.e., unchanging from year to year) and additive (i.e., the series is deseasonalized by subtracting the seasonal factor for the appropriate month from the reported inventory levels). The intent of deseasonalization is to remove only annual variation from the data. Thus, deseasonalized series would contain the same trends, cyclical components, and irregularities as the original data. The seasonal factors for total petroleum (crude and products), crude oil, distillate fuel oil, and residual fuel oil were derived using monthly data from 1976-1982. For motor gasoline, the seasonal factors were based on monthly data from 1976 and 1978-1982. In 1977, monthly stock levels of motor gasoline stayed at the same high level for the entire year. Since there was virtually no seasonal behavior in motor gasoline stocks that year, 1977 was not used in the determination of seasonal patterns for motor gasoline stocks.

After seasonal factors are derived, data from the most recent 3-year period (January-December or July-June) are deseasonalized. The average of the deseasonalized 36-month series determines the midpoint of the deseasonalized average band. The standard deviation of the deseasonalized 36 months is calculated adjusting for extreme data points. The upper curve of the "average range" is defined as the average plus the seasonal factors plus the standard deviation. The lower curve is defined as the average plus the seasonal factors minus the standard deviation. Thus, the width of the "average range" is twice the standard deviation. The values of the upper and lower curves are presented in the table below.

Values of Average Ranges in Inventory Graphs (Millions of Barrels)

	Jan	Feb	Mar	Apr	May	Jun	luL	Aug	Sep	Oct	Nov	Dec
						Lower R	ange					
Total Petroleum	1121.1	1075 5	1071.2	1076 5	1089.1	1102,3	1129,4	1146 1	1167.8	1174.1	1177.0	1141.0
Crude Oil	350.1	348.5	355 8	359,5	356.4	356.3	354 7	346 9	346.5	354 6	353.9	344 0
Motor Gasoline	244.8	247 7	245.2	235.8	226.4	221 3	221.3	218.6	219.4	214.2	221.4	227.9
Distillate Fuel Oil	144.5	115 4	103.8	102.5	111.6	126 1	147.1	167 7	184.1	189.0	188 7	170.9
Residual Fuel Oil	59.5	51 1	50.9	51,2	55 9	53 7	55.9	56.9	61.8	65.0	65.6	65,0
						Upper R	ange					
Total Petroleum	1292 0	1246.5	1242 1	1247 4	1260.0	1273.2	1300.3	1317.1	1338 7	1345.0	1347 9	1311,9
Crude Oil	377.7	376.1	383.4	387.2	384.1	383 9	382.3	374 6	374 1	382 2	381.5	371.7
Motor Gasoline	276.0	278.9	276 4	267.0	257.6	252.6	252.5	249.8	250.6	245 4	252 6	259 2
Distillate Fuel Oil	191.0	1618	150.3	149.0	158.1	1726	193.6	214.2	230.5	235.5	235 2	217 3
Residual Fuel Oil	82.4	74 1	73.9	74.2	78 9	76.7	78.8	79.9	84,8	88 0	88.6	88 0

Minimum Operating Levels

The lines fabeled "minimum operating inventory" for crude oil, motor gasoline, distillate fuel oil, and residual fuel oil were derived by the National Petroleum Council from a 1978 survey of petroleum refineries, bulk terminal operators, and petroleum pipelines. The Council also surveyed industry experts. The findings were published in "Petroleum Storage and Transportation Capacities" in December 1979. In that document, minimum operating inventory is described as follows.

Inventory below this level is not available for consumer use because it is required to fill pipelines, tank bottoms and refinery process equipment; facilitate blending to meet the product specifications; prepare for planned maintenance periods; handle unavoidable but anticipated emergencies; and sustain uninterrupted operations. Runouts and shortages would begin to occur if inventory were to fall below this level.

The values were, crude oil -- 290 million barrels; motor gasoline -- 210 million barrels; distillate fuel oil -- 125 million barrels; and residual fuel oil -- 60 million barrels.

Since the National Petroleum Council did not derive a minimum operating inventory level for total petroleum stocks, the line labeled "observed minimum" is based on the lowest inventory level observed during the same 3-year base period that was used in the derivation of the average inventory levels. For crude oil, motor gasoline, distillate fuel oil, and residual fuel oil, the observed minimum and the minimum operating inventory are quite close. Hence, it is thought that the observed minimum is a reasonable proxy for the minimum operating inventory.

Appendix C. PROJECTION OF PRODUCT SUPPLIED FROM THE AUGUST 1983 SHORT-TERM ENERGY OUTLOOK

The projections of "high" and "low" total petroleum demand, shown in the WPSR as total product supplied, are from the Office of Energy Markets and End Use, Short-Term Energy Outlook (Outlook), August 1983.

The three forecast cases presented in the <u>Outlook</u> are based on differing assumptions about the growth of the U.S. economy and the associated price of imported crude oil to U.S. refiners. In the high economic growth case, it is assumed that the price of imported crude oil falls to \$25 per barrel by the beginning of 1984 and remains at that level through the forecast period. In the base case, it is assumed the average cost for imported crude to U.S. refiners remains at \$29 per barrel. In the low economic growth case, it is assumed that imported crude oil prices rise at twice the U.S. rate of inflation.

The "high-demand" case shown in the figure is formed by adding the high economic growth forecast of total demand to the square root of the sum of the squares of the increases in demand that result from the following changes in key variables: (1) a 10-percent increase in heating degree-days over the base case in the first and fourth quarters (heating season) in the forecast period and (2) a 15-percent increase in cooling degree-days over the base case in the second and third quarters. The "low demand" case is formed by subtracting from the low economic growth forecast the square root of the sum of the squared decreases in demand resulting from decreases from the base case assumptions for heating degree-days and cooling degree-days that are equal in magnitude (but opposite in sign) to the changes in the "high demand" case

For detailed information on the forecast, please refer to the published report, Short-Term Energy Outlook, August 1983

Copies of the report are available from:

National Energy Information Center Room 1F 048, Forrestal Building 1000 Independence Avenue, S. W. Washington, D. C 20585 Telephone 202-252-8800

Appendix D. CHANGE IN 1983 WEEKLY PETROLEUM STATUS REPORT SERIES

Some data series presented in the 1983 issues of the Weekly Petroleum Status Report (WPSR) are different from 1982 WPSR data series. The differences, which are discussed below, are the result of changes made in the 1983 weekly data collection forms of the Petroleum Supply Reporting System, a change in estimation methodology, and changes in the sample frame.

Changes from Data Forms

In 1983, weekly petroleum supply forms collect data for finished motor gasoline production, stocks, and imports. This change means that the components of 1983 WPSR motor gasoline product supplied estimates are definitionally the same as the components of the monthly product supplied estimates calculated from monthly data. In 1982, weekly forms combined imports of motor gasoline blending components with finished motor gasoline imports in a single category. total motor gasoline imports. In 1983 imports of motor gasoline include finished product only. In 1983, weekly forms include imports of motor gasoline blending components in other oils imports. In the 1983 WPSR publication, the monthly other oils series for 1981 and 1982 (see p. 15) includes imports of motor gasoline blending components. In 1982, imports of motor gasoline blending components averaged 39 thousand barrels a day and ranged between 19 and 50 thousand barrels per day.

Kerosene production and stocks reports are not collected on 1983 weekly forms. Consequently, in 1983, the weekly other oils stocks estimate (pgs. 3 and 6) includes kerosene. Other oils product supplied, which is calculated for the WPSR as the difference between total product supplied and the product supplied astimates of listed products, is larger in 1983 because it includes kerosene product supplied, which can no longer be calculated from weekly data (see p. 16). Kerosene stocks in 1982 ranged between 8.8 and 10.4 million barrels. The values of kerosene product supplied averaged 128 thousand barrels per day in 1982.

Change in Methodology

In 1983, reports of crude oil used as fuel on leases are treated as reports of crude oil product supplied, a new product supplied category. Before 1983, crude oil used in this fashion was reported as a use of distillate fuel oil or residual fuel oil and was included in the respective product supplied calculations. Weekly estimates for product supplied made in 1983 do not include estimates for these quantities and are compared in the U.S. Petroleum Balance (p. 3) to recast 1982 data. The monthly series for 1981 and 1982 shown on p. 16 are the quantities originally calculated and published including crude oil used as fuel. In 1982, the quantities of crude oil used directly in the distillate fuel oil product supplied and residual fuel oil product supplied calculations averaged 10 thousand barrels per day and 48 thousand barrels per day, respectively.

Change in Stock Basis

The list of operators of bulk terminals, pipelines, and crude stock holders required to report each month about crude oil and petroleum product stocks was updated in a regular review of the petroleum supply reporting frame during 1982. (See the article in the Petroleum Supply Monthly, March 1983 for details.) This expansion was first incorporated in monthly data published for January 1983. The new list of operators was also used to select new samples for EIA Forms 801 (bulk terminals), 802 (pipelines), and 803 (crude stock holders) of the weekly petroleum reporting system. The new weekly sample was used for estimation beginning with the week ending April 1, 1983. Estimates for the weeks between the end of January 1983 and April 1, 1983 were revised to reflect the contributions of the new frame members. The revisions were done by using information about the stocks held by the new and old reporters on December 31, 1982. The table below shows the new-basis stock levels for December 31, 1982 which can be compared with the old frame stock levels shown on the respective pages of the WPSR. The new-basis stocks of crude oil and petroleum products, including the Strategic Petroleum Reserve, are 2.2 percent greater than the old basis stocks.

New Basis Stock Levels for Crude Oil and Petroleum Products, December 31, 1982

	Percent Increase	U.S. Total	PAD 1	PAD 2 (Th	PAD 3 ousands of Barre)	PAD 4	PAD 5
Crude Oil	0.01	643,871	17,550	78.556	453,697	13,491	80,577
Total Motor Gasoline	3.8	244,279	69,397	67,135	68,016	8,559	31,172
Finished Gasoline	4.1	202.537	64,116	67,903	51,182	6,086	23,250
Blending Components	2.0	41,742	5.281	9,232	16,834	2,473	7,922
Naphtha-Type Jet Fuel	26.9	7.189	1.384	1.310	2,367	349	1,779
Kerosene-Type Jet Fuel	2.6	32.001	9,626	7.310	9.004	638	5,423
Distillate Fuel Oil	3.9	185,579	84,681	48,221	34,921	4,051	13,705
Residual Fuel Oil	3.1	68.229	35,686	5.383	16.698	634	9,828
Unfinished Oils	0,0	105,277	13,656	17.784	46,209	2,686	24,942
Other Oils	7.1	175,592	22,073	49,714	90.142	3,757	9,906
Total Oils	2.21	1,462,017	254,053	275,413	721,054	34,165	177,332

¹ Calculated including stocks of crude oil in Strategic Petroleum Reserve (293,827 thousand barrels on December 31, 1982). Source. EIA, "Petroleum Supply Monthly"

Appendix E. CALCULATION OF WORLD OIL PRICES (page 19)

The weighted average international price of oil, shown in the "Highlights" and on page 19, is an average calculated using specific crude oil prices weighted by the estimated crude oil export volume for each oil-producing country. To develop the table shown on page 19, a list of major oil producing/exporting countries was chosen. For each country, the official selling price of one or more representative crude oils was determined by investigating a number of industry publications (i.e., "Oil Buyers' Guide," "Platt's Oilgram Price Report," "Petroleum Intelligence Weekly," and "Europe Oil Prices") and by contacting oil market analysts.

Then, the appropriate crude oil volumes to be used as weighting factors for each country were determined. These volumes are estimates based on a number of sources which provide data on production, consumption, and exports for these countries. Export volumes for a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors. After the export volumes had been determined, simple mathematical weighted averages were calculated to arrive at the "Total OPEC," "Total Non-OPEC," and "Total World" prices.

The average United States (FOB) import price is derived by the same basic procedure as the world oil price, that is, taking the representative official crude oil price of a specific crude oil from a particular country and weighting this price by a certain volume of crude oil. In this case, the weighting factors are the volumes of crude oil imported into the U.S. from pertinent countries. Import volumes from a number of smaller producing/exporting countries, not listed in the table, are included in the weighting factors.

Both the import and export volumes are preliminary. Due to their origin, these estimates cannot be fully verified. These volumes are updated monthly, or more frequently when changes in oil market conditions make updating appropriate.

Glossary

- Barrels, 42-gallon barrels.
- Crude Oil A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through suiface separating facilities. Lease condensate and drips are included but topped crude oil (residual) and other unfinished oils are excluded.
- Crude Oil Inputs. The total crude oil put into processing units at refineries
- Distillate Fuel Oils. Includes No 1, No 2, and No 4 fuel oils, and No 1, No. 2, and No 4 diesel fuels. These are light fuel oils used primarity for home heating as a diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and for electric power generation.
- Gross Inputs. The crude oil, unfinished oils, and natural gas plant liquids put into distillation units
- Imports Unless otherwise specified in this report, refers to gross imports. Imports of minor products ("other oils") include aviation gasoline, kerosene, unfinished oils, liquefied petroleum gases, plant consentate, petrochemical feedstocks, lube oils, waxes, special naphthas, coke, asphalt, blending components, and other miscellaneous oils
- Jet Fuel Includes kerosene-type jet fuel and naphthatype jet fuel Kerosene-type jet fuel is a kerosene quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphthas range used primarily for militery turbojet and turboprop aircraft engines.
- Motor Gasoline. Finished leaded gasoline, finished unleaded gasoline, and blending components in the gasoline range. Production and imports data represent finished leaded gasoline and finished unleaded gasoline. Stocks data consist of the two types of finished gasoline and blending components. Stock change used in the calculation of motor gasoline product supplied is the change in finished motor gasoline stocks. Imports of motor gasoline blending components are contained in other oils imports.
- Operable Capacity The maximum amount of input that can be processed by a crude oil distillation unit in a 24-hour period making allowances for processing limitations due to types and grades of inputs, limitations of downstream facilities, scheduled and unscheduled downstream, and environmental constraints. Includes any shutdown capacity that could be placed in operation within 90 days.
- Product Supplied A value calculated for specific products which is equal to domestic production plus net imports (imports less exports), less the net increase in primary stocks. Total products supplied is calculated as inputs to refineries, plus estimated refinery gains, plus other hydrocarbon input, plus product imports, less product exports, less the net increase in product stocks. Values shown for "Other Oils" product supplied are the difference between total product supplied and product supplied values for specified products. Other oils product supplied incorporates crude oil product supplied and reclassified product adjustment.
- Refiner Acquisition Cost of Crude Olf. The average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1131. Imported crude oil is any crude oil which is not domestic oil. The composite is the weighted average price of domestic and imported crude oil. Prices do not include price of unfinished oils or SPR.

- Refinery Capacity Utilization. Ratio of the total amount of crude oil, unfinished oils, and natural gas plant liquids run through crude oil distillation units to the operable capacity of these units. In the period 1979-1982 the refinery capacity utilization for all U.S. refineries ranged between 87 percent and 65 percent. The ratio for an individual refinery may fluctuate much more depending on the type of crude and other raw materials processed, the type of products produced, and the operating conditions of the refinery.
- Residual Fuel Oils. Includes No. 5 and No. 6 fuel oils which are heavy oils used primarily for electric power generation, for industrial and commercial space heating, as a ship fuel, and for various industrial uses.
- Retail Motor Gasoline Prices. Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). These prices are collected in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service).
- Stocks For individual products in WPSR, quantities held at refineries, in pipelines, and at bulk terminals with a capacity over 50 thousand barrels. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded Stocks of individual products held at gas processing plants are excluded from individual product estimates but included in "Other Oils" estimates and "Total."
- Stock Change (Refined Products). Component of Product Supplied calculation shown on U S. Petroleum Balance. The product stock change shown on the U.S. Petroleum Balance Sheet for the current 4 week period is calculated in the following way. an average daily stock change is calculated for major refined products (i.e., all actual reported stocks). this stock change is added to an estimate for minor product stock change based on historical monthly data; a daily average stock change for refined product stocks for the 4-week period is then calculated. To calculate minor product stock change, the stock levels shown for other oils in the stock section of the balance sheet are used. These other oils stock levels are derived by: 1) computing an average daily rate of stock change for each month based on monthly data for the past six years; 2) using this daily rate and the minor stock level from the most recent monthly publication to estimate the minor product stock level for the current period.
- Unaccounted-for Crude Oil. Term which appears in U.S. Petroleum Balance Sheet. It reconciles the difference between data (or estimates) about supply and data (or estimates) about use. Its value can be positive or negative since it is a balancing term. As it appears in the monthly publications, it reflects the accuracy of the reported data on crude oil imports, production, stocks, refinery input, losses, exports, and transfers (crude oil burned directly as fuel oil). It reflects the quality of the estimates as well as the accuracy of the reported date. Because the unaccounted for crude oil figure reflects the accuracy of reported and estimated figures, one would expect the figure to be larger in balances using preliminary or estimated data and smaller in balances using the final data. In fact, the published figures confirm this expectation. In the WPSR, four-week averages for the previous year are interpolated from final monthly date, so that the unaccounted-for crude oil value for the previous years is considerably smaller than that for the current period.
- United States. For the purpose of this report, the 50 states and the District of Columbia. Data for the Virgin Islands, Puerto Rico, and other U.S. territories are not included in the U.S. totals.